

**OPTICALLY AMPLIFIED RECEIVER**

**Abstract of the Disclosure**

An integrated, optically amplified receiver includes an optically pumped optical preamplifier for receiving, generally, wavelength division multiplexed 5 optical communication signal over an optical communications line. A PIN photodetector receives the optical communication signal as a filtered demultiplexed signal from the optical preamplifier and converts the optical communication signal into an 10 electrical communication signal. An amplifier circuit amplifies the electrical communication signal for digital retiming or demodulation. A housing or printed circuit card assembly contains the optical preamplifier, filter or demultiplexer, PIN photo 15 detector and amplifier circuit as an integrated receiver unit.

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